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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/702,289	10/30/2000	Eva Chen	TRNDP004	1429

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EXAMINER
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JACK, TODD M

ART UNIT	PAPER NUMBER
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2133

DATE MAILED: 02/06/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/702,289

Applicant(s)

CHEN ET AL.

Examiner

Todd M Jack

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 June 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)                      4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)                      5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_                      6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hailpern et al. (6,275,937 B1) in view of [www.trendmicro.com](http://www.trendmicro.com).

Claim 1: Hailpern teaches that all proxies and clients in hierarchy access information from content servers connected to the Internet (col. 7, lines 18-22) and firewall isolated intranets are customized (col. 7, lines 27-29) to discourage but not eliminate the possibility that client computers may be potentially infected, a processor indicating a virus checking program such as IBM Anti Virus or Microsoft Anti-Virus (col. 11, lines 39-55) and members of Postponable are virus checked, suggesting that anti-virus scanning is accessible via the network (col. 16, lines 25-37), a Request Rate Database provides for storage, update and retrieval of the historical information of the number of times the server has received requests for a particular process to be applied to a particular piece of data (col. 9, lines 12-22), a server which processes and caches cross-references URLs and requested process with a number—this database server may maintain and provide access to additional information (col. 9, lines 23-41), and a Dangerous Source Database provides for storage, update, and retrieval of historical information regarding which content sources have delivered virus-infected data (col. 9, lines 41-51). Hailpern

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fails to teach a virus tracking display mode accessible by a tracking user from the virus-tracking server, the display mode providing real-time updates of virus information pertaining to the scan logs. Trend Micro, Inc. teaches regional distribution of viruses worldwide in chart form ([www.trendmicro.com](http://www.trendmicro.com): Regional Breakdown). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by displaying the occurrence of viruses in order that an individual can easily recognize a viral threat to their computer system.

Claim 2: Hailpern fails to teach a tracking user from the virus-tracking server, the display mode provides real-time updates of virus information pertaining to the scan logs. Trend Micro, Inc. teaches infected computers versus time associated with geographic maps of where the viruses are occurring ([www.trendmicro.com](http://www.trendmicro.com): TROJ\_MAGICON.A). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by providing for a display of the virus-tracking information in association with geographical locations.

Claim 3: Hailpern fails to teach display modes include a plurality of web pages with user selectable menus to configure the virus-tracking display on the pages. Trend Micro, Inc. teaches web pages in which you can select for the Top Viruses and Virus Advisories ([www.trendmicro.com](http://www.trendmicro.com): Virus Info Feed). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify

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Hailpern's collaborative server by providing for web page selections to track specific viruses.

Claim 4: Hailpern fails to teach a scan log contains no information relating to the direct identification of the client user. Trend Micro, Inc. teaches that the scan logs possess no information about the identification of the client user ([www.trendmicro.com](http://www.trendmicro.com): Regional Breakdown or Virus Info Feed). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by preserving the privacy of the client user.

Claim 5: Hailpern fails to teach that the scan log includes the name of the virus, the frequency of its occurrence, and the geographic location of the infected computer. Trend Micro, Inc. teaches the availability of logs with the virus outbreaks, which include names of viruses, its frequency, and the geographic locations where it is occurring ([www.trendmicro.com](http://www.trendmicro.com): Regional Breakdown or Virus Info Feed). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by presenting a tracking scan log with virus information of interest to a client user.

Claim 6: Hailpern fails to teach a servlet program on the virus-tracking server is used to receive the scan log information from the at least one anti-virus scanning server. Trend Micro, Inc. teaches downloading files of virus information to anti-virus software. It would

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have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by allowing for the download of files to a program for anti-virus software ([www.trendmicro.com](http://www.trendmicro.com): EICAR Test Files).

Claim 7: Hailpern fails to teach a polling program is used to regularly retrieve virus-tracking information from the database server and store it in a data object. Trend Micro, Inc. teaches a 2-click pop poll ([www.trendmicro.com](http://www.trendmicro.com): TROJ\_MAGICON.A). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by allowing for the polling of requested virus information and presenting it to the client user for installation of appropriate anti-virus programs in one's computers.

Claim 8: Hailpern fails to teach a common gateway interface program used to retrieve the data object for display by the tracking user. Trend Micro, Inc. teaches Detailed Reporting and Logging Information to delivers virus information to system administrators for analysis ([www.trendmicro.com](http://www.trendmicro.com): Features Damage Cleanup Services). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by reporting and logging information about viruses tracking for the client user in order that the client may utilize the information to deploy anti-virus programs.

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Claim 9: Hailpern fails to teach a Java applet running on tracking user browser is used to display a real-time virus-tracing map. Trend Micro, Inc. teaches the monitoring of the behavior of the applet within a protected sandbox and terminates the applet if it attempts an illegal operation ([www.trendmicro.com](http://www.trendmicro.com): InterScan Applet Trap Three Layers of Defense). The behavior can be observed on a real time tracing map when you subscribe to Trend Micro News Letters ([www.trendmicro.com](http://www.trendmicro.com): Subscribe to Trend Micro's Newsletters). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by adding a Java applet to decrease the CPU/modem time required to communicate with the server.

Claim 10: Hailpern fails to teach the client user is also the tracking user. Trend Micro, Inc. teaches adding the Tracking Center to your web sight when you register as the Webmaster ([www.trendmicro.com](http://www.trendmicro.com): Sign Up). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by allowing the client user to also be the user, thus allowing individuals to set-up web sights and protect their computer from viruses by use of the Tracking Center.

Claim 11: Hailpern fails to teach the distributed computer network of includes the Internet. Trend Micro, Inc. teaches Buy One, Get One FREE: PC-cillin Internet Security, which allows access to the weekly virus report through the Internet

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([www.trendmicro.com](http://www.trendmicro.com): Weekly Virus Report). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by using the Internet to access live information.

Claim 12: Hailpern teaches to discourage but not eliminate the possibility that client computers may be potentially infected, a processor indicating a virus checking program such as IBM Anti Virus or Microsoft Anti-Virus (col. 11, lines 39-55) and members of Postponable are virus checked, suggesting that anti-virus scanning is accessible via the network (col. 16, lines 25-37), a Request Rate Database provides for storage, update and retrieval of the historical information of the number of times the server has received requests for a particular process to be applied to a particular piece of data (col. 9, lines 12-22), a server which processes and caches cross-references URLs and requested process with a number—this database server may maintain and provide access to additional information (col. 9, lines 23-41). Hailpern fails to teach providing an anti-virus scanning program on at least one anti-virus scanning server accessible via the distributed computer network, processing the scan log information into virus tracing information and storing it on a database server associated with the virus-tracking server, and retrieving the virus tracing information, and displaying a real-time trace on a tracking user device. Trend Micro, Inc. teaches anti-virus programs and current pattern files obtained from Trendmicro's Internet site ([www.trendmicro.com](http://www.trendmicro.com): Virus Primer pg 2, par. 5), virus tracking information added to your Web site with use of the Trend Micro World Virus Tracking Center ([www.trendmicro.com](http://www.trendmicro.com): Virus Info Feed, Also available),



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searching for and obtaining virus information ([www.trendmicro.com](http://www.trendmicro.com): Virus Info Feed, Also available), and real-time trace on a tracking device ([www.trendmicro.com](http://www.trendmicro.com): TROJ\_MAGICON.A). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by

Claim 13: Hailpern fails to teach a tracking user from the virus-tracking server, the display mode provides real-time updates of virus information pertaining to the scan logs. Trend Micro, Inc. teaches infected computers versus time associated with geographic maps of where the viruses are occurring ([www.trendmicro.com](http://www.trendmicro.com): TROJ\_MAGICON.A). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by providing for a display of the virus-tracking information in association with geographical locations.

Claim 14: Hailpern fails to teach display modes include a plurality of web pages with user selectable menus to configure the virus-tracking display on the pages. Trend Micro, Inc. teaches web pages in which you can select for the Top Viruses and Virus Advisories ([www.trendmicro.com](http://www.trendmicro.com): Virus Info Feed). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by providing for web page selections to track specific viruses.

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Claim 15: Hailpern fails to teach a scan log contains no information relating to the direct identification of the client user. Trend Micro, Inc. teaches that the scan logs possess no information about the identification of the client user ([www.trendmicro.com](http://www.trendmicro.com): Regional Breakdown or Virus Info Feed). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by preserving the privacy of the client user.

Claim 16: Hailpern fails to teach that the scan log includes the name of the virus, the frequency of its occurrence, and the geographic location of the infected computer. Trend Micro, Inc. teaches the availability of logs with the virus outbreaks, which include names of viruses, its frequency, and the geographic locations where it is occurring ([www.trendmicro.com](http://www.trendmicro.com): Regional Breakdown or Virus Info Feed). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by presenting a tracking scan log with virus information of interest to a client user.

Claim 17: Hailpern fails to teach a servlet program on the virus-tracking server is used to receive the scan log information from the at least one anti-virus scanning server. Trend Micro, Inc. teaches downloading files of virus information to anti-virus software. It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by allowing for the

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download of files to a program for anti-virus software ([www.trendmicro.com](http://www.trendmicro.com): EICAR Test Files).

Claim 18: Hailpern fails to teach a polling program is used to regularly retrieve virus-tracking information from the database server and store it in a data object. Trend Micro, Inc. teaches a 2-click pop poll ([www.trendmicro.com](http://www.trendmicro.com): TROJ\_MAGICON.A). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by allowing for the polling of requested virus information and presenting it to the client user for installation of appropriate anti-virus programs in one's computers.

Claim 19: Hailpern fails to teach a common gateway interface program used to retrieve the data object for display by the tracking user. Trend Micro, Inc. teaches Detailed Reporting and Logging Information to delivers virus information to system administrators for analysis ([www.trendmicro.com](http://www.trendmicro.com): Features Damage Cleanup Services). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by reporting and logging information about viruses tracking for the client user in order that the client may utilize the information to deploy anti-virus programs.

Claim 20: Hailpern fails to teach a Java applet running on tracking user browser is used to display a real-time virus-tracing map. Trend Micro, Inc. teaches the monitoring of the

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behavior of the applet within a protected sandbox and terminates the applet if it attempts an illegal operation ([www.trendmicro.com](http://www.trendmicro.com): InterScan Applet Trap Three Layers of Defense). The behavior can be observed on a real time tracing map when you subscribe to Trend Micro News Letters ([www.trendmicro.com](http://www.trendmicro.com): Subscribe to Trend Micro's Newsletters). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by adding a Java applet to decrease the CPU/modem time required to communicate with the server.

Claim 21: Hailpern fails to teach the client user is also the tracking user. Trend Micro, Inc. teaches adding the Tracking Center to your web sight when you register as the Webmaster ([www.trendmicro.com](http://www.trendmicro.com): Sign Up). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by allowing the client user to also be the user, thus allowing individuals to set-up web sights and protect their computer from viruses by use of the Tracking Center.

Claim 22: Hailpern fails to teach the distributed computer network of includes the Internet. Trend Micro, Inc. teaches Buy One, Get One FREE: PC-cillin Internet Security, which allows access to the weekly virus report through the Internet ([www.trendmicro.com](http://www.trendmicro.com): Weekly Virus Report). It would have been obvious to a person

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having ordinary skill in the art at the time of the invention was made to modify Hailpern's collaborative server by using the Internet to access live information.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Todd M Jack whose telephone number is 703-305-1027. The examiner can normally be reached on M-Th, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady, can be reached 703-305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-3900.



Todd Jack  
January 13, 2004

  
for

Albert DeCady  
Primary Examiner